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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/886,824	06/21/2001	George Alfred Velius		6850
7590	09/28/2005		EXAMINER	
George Velius 17986 Rosemar Lane Wildwood, MO 63038			DAVIS, GEORGE B	
			ART UNIT	PAPER NUMBER
			2129	

DATE MAILED: 09/28/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	09/886,824	VELIUS, GEORGE ALFRED
	Examiner George Davis	Art Unit 2129

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 16 September 2005.
 2a) This action is FINAL. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-20 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
 5) Claim(s) _____ is/are allowed.
 6) Claim(s) 1-20 is/are rejected.
 7) Claim(s) _____ is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
 Paper No(s)/Mail Date _____.

4) Interview Summary (PTO-413)
 Paper No(s)/Mail Date. _____.
 5) Notice of Informal Patent Application (PTO-152)
 6) Other: _____.

DETAILED ACTION

Claim Objections

1. Claims 10-14 and 16-19 are objected to because of the following informalities:

Claim 10, line 8, delete "based thereon". Appropriate correction is required.

Claim Rejections - 35 USC § 101

2. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 1-20 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

Claim 1 recites **receiving input data** representing items of known classification, **generating an output** representing class-specific probability distributions based on the received input data, **constructing a transform** for each class of interest based on the output, and **transforming the probability distributions** based on certain conditions.

The language of claim 1 raises a question as to whether the claim is directed merely to an abstract idea that is not tied to a technological art, environment or machine which would result on a practical application producing a concrete, useful, and tangible result to form the basis of statutory subject matter under 35 U.S.C. 101.

Claim 10 recites **a pattern recognition system to receive input data** representing items of known classification and **generate output** representing class-specific probability distribution based on the received input data, **a transformer**

constructor adapted to receive the output from the pattern recognition system and construct a transform for each class of interest, and a transformer adapted to receive and automatically transform the class-specific probability distributions onto a normalized scale based on certain conditions.

The pattern recognition system and the transform constructor act as input and output devices. The transformer acts as device to transform the probability distributions.

The language of claim 10 raises a question as to whether the claim is directed merely to an abstract idea that is not tied to a technological art, environment or machine which would result on a practical application producing a concrete, useful, and tangible result to form the basis of statutory subject matter under 35 U.S.C. 101.

Claim 20 also recites methods of receiving, outputting and transforming statistics.

The language of claim 20 raises a question as to whether the claim is directed merely to an abstract idea that is not tied to a technological art, environment or machine which would result on a practical application producing a concrete, useful, and tangible result to form the basis of statutory subject matter under 35 U.S.C. 101.

Independent claims also recite probability distributions or matters related to probability distributions. The language in the independent claims raise a question as to whether the claim is directed merely to an abstract idea that is not tied to a technological art, environment or machine which would result on a practical application producing a concrete, useful, and tangible result to form the basis of statutory subject matter under 35 U.S.C. 101.

Therefore, Claims 1-20 are non-statutory.

Conclusion

3. Applicant's arguments filed August 2, 2005 have been fully considered but they are not persuasive.

Applicant argues at page 7, second paragraph "The values of the normalized scale produced by the steps of claim 1 are physical things". It is not significant as far as statutory subject matter concern if the claimed invention produces or not produces physical matters. The significant matter about statutory subject matter is the question of, is the claimed invention produces useful, concrete and tangible result(s)? Claim 1, the step of transforming probability distributions based on certain conditions is not useful, concrete and tangible result.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to George Davis whose telephone number is (571) 272-3683. The examiner can normally be reached on Monday through Friday from 10:00 am to 6:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Anthony Knight, can be reached on (571) 272-3687. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-3800.

September 26, 2005



GEORGE B. DAVIS

PRIMARY PATENT EXAMINER